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Derwent Title: **Compressed digital data seamless video switching unit in interactive digital cable television system, has digital demultiplexer-decoder which searches splice point of video signal on receiving switching command**

Original Title:  **WO0016544A2: COMPRESSED DIGITAL-DATA SEAMLESS VIDEO SWITCHING SYSTEM**

Assignee: **ACTV CO** Non-standard company
ACTV INC Non-standard company

Inventor: **DEO F; DEO F P; FREEMAN M; FREEMAN M J; HARPER G; HARPER G W;**

Accession/
Update: **2000-283379 / 200545**

IPC Code: **H04N 7/24 ; H04N 0/00 ; H04N 0/00000; H04N 5/44 ; H04N 5/45 ; H04N 7/10 ; H04N 7/15 ; H04N 7/173 ; H04N 5/455 ; H04N 7/14 ; H04N 7/16 ;**

Derwent Classes: **W02; W03; W04;**

Manual Codes: **W02-F07**(Bandwidth/bit-rate reduction, PCM systems) , **W03-A16C3**(Security and decoding aspects) , **W04-N05B5**(Video switching equipment)

Derwent Abstract: **(WO0016544A) Novelty** - A digital demultiplexer-decoder connected to digital demodulator and microprocessor, demultiplexes program signal to obtain first and second digital video signals. The demultiplexer-decoder searches splice point of first video signal, when switching command is received from microprocessor. The second digital program signal is loaded into buffer as first video signal continues to play out of the buffer.

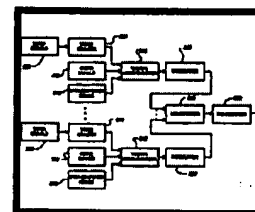
Detailed Description - The first and second digital video signal transmitted over 6 MHz NTSC channel can be interactive program signals of interactive program, or regular television program signals or advertisements. The first and second digital video signals comprise different camera angles of same event. The seamless switching unit is implemented in subscriber reception unit having subscriber interface for receiving subscriber selections. INDEPENDENT CLAIMS are also included for the following:

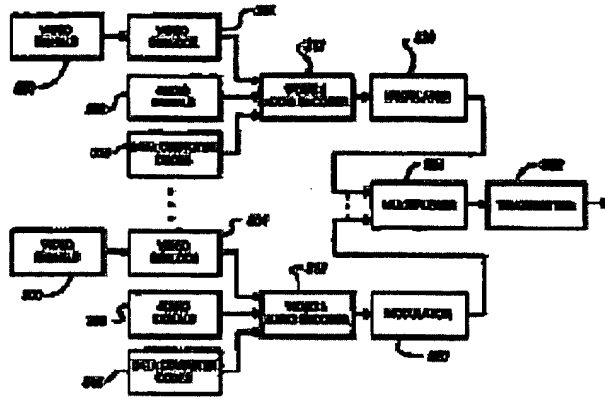
- (a) compressed digital data seamless video switching method;
- (b) digital encoding system

Use - The compressed digital data seamless video switching unit is used in interactive digital cable television system using standard cable or direct broadcast satellite television distribution network. Also in interactive direct broadcast satellite system, modified telephone system.

Advantage - When channel change is required by a user response to interactive-interlude, slight imperceptible delay is programmed to allow the expansion algorithm to adjust to rapid change from one video signal to another. During the delay, previously obtained video information is displayed while the interacting system locates, receives, demultiplexes, decompresses, decodes and processes the new video signals, thereby allow interactive system to switch to new video signal without flicker or distortion appearing on TV screen. The viewing experience is enhanced based on individualization of content by switching among video, audio, graphical and data elements.

Images:





Description of Drawing(s) - The figure depicts block diagram of central programming location.

Description of Drawing(s) - The figure depicts block diagram of central programming location.,

Description of Drawing(s) - The figure depicts block diagram of central programming location.,

Description of Drawing(s) - The figure depicts block diagram of central programming location. ,

Dwg.5/17

Family:

PDF Patent	Pub. Date	Derwent Update	Pages	Language	IPC Code
WO0016544A2 *	2000-03-23	200024	70	English	H04N 0/00
(N) AL AM AT AU AZ BA BB BG BR BY CA CH CN CU CZ DE DK EE ES FI GB GE GH GM HU ID IL IS JP KE KG KP KR KZ LC LK LR LS LT LU LV MD MG MK MN MW MX NO NZ PL PT RO RU SD SE SG SI SK SL TJ TM TR TT UA UG UZ VN YU ZW (R) AT BE CH CY DE DK EA ES FI FR GB GH GM GR IE IT KE LS LU MC MW NL OA PT SD SE SZ UG ZW					
Des. States:					
Local apps.: WO1998US0026864 Filed:1998-12-16 (98WO-US26864)					
AU3203564A1 #	2003-06-12	200456		English	H04N 7/173
Local apps.: AU2003000203564 Filed:2003-03-28 (2003AU-0203564)					
Div ex AU1999000018310 Filed:1998-12-16 (99AU-0018310)					
AU3203565A1 #	2003-06-12	200456		English	H04N 7/173
Local apps.: AU2003000203565 Filed:2003-03-28 (2003AU-0203565)					
Div ex AU1999000018310 Filed:1998-12-16 (99AU-0018310)					
AU3203563A1 #	2003-06-12	200456		English	H04N 7/173
Local apps.: AU2003000203563 Filed:2003-03-28 (2003AU-0203563)					
Div ex AU1999000018310 Filed:1998-12-16 (99AU-0018310)					
BR9816020A =	2005-06-28	200545		PT_BR	H04N 7/10
Local apps.: Based on WO00016544 (WO 200016544)					
WO1998US0026864 Filed:1998-12-16 (98WO-US26864)					
BR1998000016020 Filed:1998-12-16 (98BR-0016020)					
CN1535012A =	2004-10-06	200506		English	H04N 7/10
Local apps.: CN2003001124850 Filed:1998-12-16 (2003CN-1124850)					
Div ex CN1998000811211 Filed:1998-12-16 (98CN-0811211)					
CN1533178A =	2004-09-29	200504		English	H04N 7/10
Local apps.: CN2003001124847 Filed:1998-12-16 (2003CN-1124847)					
Div ex CN1998000811211 Filed:1998-12-16 (98CN-0811211)					
CN1533177A =	2004-09-29	200504		English	H04N 7/10
Local apps.: CN2003001124846 Filed:1998-12-16 (2003CN-1124846)					
Div ex CN1998000811211 Filed:1998-12-16 (98CN-0811211)					
AU0774028B2 =	2004-06-10	200467		English	H04N 7/173
Local apps.: Based on WO00016544 (WO 200016544)					
Previous Publ. AU09918310 (AU 9918310)					
AU1999000018310 Filed:1998-12-16 (99AU-0018310)					

KR4010726A =	2004-01-31	200436	English	H04N 5/45
Local appls.: KR2003000716463 Filed:2003-12-16 (2003KR-0716463)				
KR4007730A =	2004-01-24	200435	English	H04N 7/10
Local appls.: KR2003000716462 Filed:2003-12-16 (2003KR-0716462)				
KR4000512A =	2004-01-03	200432	English	H04N 7/15
Local appls.: KR2003000716464 Filed:2003-12-16 (2003KR-0716464)				
JP2003523103T2 =	2003-07-29	200358	80 English	H04N 5/44
Local appls.: Based on <u>WO00016544</u> (WO 200016544) <u>WO1998US0026864</u> Filed:1998-12-16 (98WO-US26864) <u>JP2000000570960</u> Filed:1998-12-16 (2000JP-0570960)				
<input checked="" type="checkbox"/> EP1273175A2 =	2003-01-08	200311	English	H04N 7/24
Des. States: (R) AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE				
Local appls.: Based on <u>WO00016544</u> (WO 200016544) <u>EP1998000963253</u> Filed:1998-12-16 (98EP-0963253) <u>WO1998US0026864</u> Filed:1998-12-16 (98WO-US26864)				
<input checked="" type="checkbox"/> GB2356517B =	2002-11-27	200303	English	H04N 5/45
Local appls.: <u>GB2001000003147</u> Filed:2001-02-08 (2001GB-0003147) Div ex <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446)				
<input checked="" type="checkbox"/> MX1000974A1 =	2002-06-01	200365	Spanish	H04N 0/00000
Local appls.: Based on <u>WO00016544</u> (WO 200016544) <u>MX2001000000974</u> Filed:2001-01-26 (2001MX-0000974) <u>WO1998US0026864</u> Filed:1998-12-16 (98WO-US26864)				
<input checked="" type="checkbox"/> GB2356516B =	2002-04-24	200235	English	H04N 7/173
Local appls.: <u>GB2001000003146</u> Filed:2001-02-08 (2001GB-0003146) Derived from <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446)				
<input checked="" type="checkbox"/> GB2356518B =	2002-04-24	200235	English	H04N 7/24
Local appls.: <u>GB2001000003149</u> Filed:2001-02-08 (2001GB-0003149) Derived from <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446)				
<input checked="" type="checkbox"/> GB2349289B =	2001-09-12	200153	English	H04N 7/24
Local appls.: Based on <u>WO00016544</u> (WO 200016544) <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446) <u>WO1998US0026864</u> Filed:1998-12-16 (98WO-US26864)				
<input checked="" type="checkbox"/> CN1310919A =	2001-08-29	200176	English	H04N 7/10
Local appls.: <u>CN1998000811211</u> Filed:1998-12-16 (98CN-0811211)				
<input checked="" type="checkbox"/> GB2356516A =	2001-05-23	200130	67 English	H04N 7/173
Local appls.: <u>GB2001000003146</u> Filed:2001-02-08 (2001GB-0003146) Derived from <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446)				
<input checked="" type="checkbox"/> GB2356517A =	2001-05-23	200130	66 English	H04N 5/45
Local appls.: <u>GB2001000003147</u> Filed:2001-02-08 (2001GB-0003147) Derived from <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446)				
<input checked="" type="checkbox"/> GB2356518A =	2001-05-23	200130	62 English	H04N 7/24
Local appls.: <u>GB2001000003149</u> Filed:2001-02-08 (2001GB-0003149) Derived from <u>GB20000000000446</u> Filed:2000-01-10 (2000GB-0000446)				
KR1032145A =	2001-04-16	200163	English	H04N 7/10
Local appls.: KR2000000705332 Filed:2000-05-16 (2000KR-0705332)				

 GB2349289A = 2000-10-25 200055 2 English H04N 7/24

Local appls.: Based on WO00016544 (WO 200016544)
GB2000000000446 Filed:2000-01-10 (2000GB-0000446)
WO1998US0026864 Filed:1998-12-16 (98WO-US26864)

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 AU9918310A = 2000-04-03 200034 English H04N 7/173

Local appls.: Based on WO00016544 (WO 200016544)
AU1999000018310 Filed:1998-12-16 (99AU-0018310)

 INPADOC

Legal Status:

 First Claim:

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 Priority Number:

[Show legal status actions](#)

CLAIMS

Application Number	Filed	Original Title
AU2003000203564	2003-03-28	
AU2003000203565	2003-03-28	
AU2003000203563	2003-03-28	
US1998000154069	1998-09-16	

 Related
 Accessions:

Accession Number	Type	Derwent Update	Derwent Title
<u>2003-644593</u>	R	200361	Digital program provision method for interactive television system, involves decompressing selected video signal, and accordingly displaying signal such that visual transition to selected video signal is seamless
<u>2002-225217</u>	R	200228	Customized programming method in digital interactive programming system, involves switching digital program segment at splice point identified in preceding segment without creating any perceptible artifacts
<u>2002-187146</u>	R	200224	Interactive television system has signal selector for selecting one of digitally compressed video signals which is then directed to TV screen to display decompressed video signals based on user selections
<u>2002-129207</u>	R	200217	Interactive television program reception system demultiplexes and decompresses selected video signal, respectively and transmits video signal without visually perceptible delay
<u>2002-112770</u>	R	200215	Interactive cable television system is provided with interactive television program, whose channels are switched without visually perceptible delay
<u>2001-588749</u>	R	200166	Interactive cable television system has selector that selects program information message signal in interactive television programming which is selected and viewed by subscriber independently
<u>2001-375382</u>	R	200140	Interactive video programming providing method at a receiver station, preferably on optical disc, with a seamless transition between first displayed and second stored video signals
<u>1998-507110</u>	R	199843	Live interactive digital programming system e.g. for providing full interactivity with live events via the Internet - allows viewer active participation in selecting digital video streams associated with different camera angles and integrated audio and graphic segments with Web pages can be included into program
<u>1998-178718</u>	R	199816	Compressed digital data interactive programme system for cable television system - transmitting signals in digital format, with several signals multiplexed to single channel datastream, with receiver operating in conjunction with selector to choose desired channel for decompression and playback
			Interactive computer workstation for integrated multimedia

1997-415544	R	199738	presentation - includes unit displaying multimedia presentation with user options allowing interaction with presentation and appropriate feedback
1997-012375	R	199701	Multiple channel interactive television system using compression - has number of related video sources compressed, multiplexed and transmitted to user televisions, with user interactions selecting channels
1993-197348	R	199324	Interactive cable television system with digital signals - utilises standard cable distribution network to provide many signals related in time and content and in multiplexed form
12 items found			

⌚ Title Terms: COMPRESS DIGITAL DATA SEAM VIDEO SWITCH UNIT INTERACT DIGITAL CABLE TELEVISION SYSTEM DIGITAL DEMULTIPLEXER DECODE SEARCH SPLICE POINT VIDEO SIGNAL RECEIVE SWITCH COMMAND

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